

South Carolina Academic/Career Development Integration Activity

Title **Collecting Weather Data (ES-3)**
Subject **Science**

Grade Level 4

SC Content Standard – Weather – Grade 4. Standard 4-4. The student will demonstrate an understanding of the weather patterns and phenomena. (Earth Science)

4-4.5. Carry out the procedures for data collecting and measuring weather conditions (including wind speed and direction, precipitation, and temperature) by using appropriate tools and instruments.

National Career Development Guidelines Goal/Indicator

Personal Social Development GOAL PS2. Develop positive interpersonal skills including respect for diversity.

Indicator PS2.A4. Demonstrate the ability to get along well with others and work effectively with them in groups.

Career Development Objectives

1. The student, working in a group, will carry out the procedures for data collecting and measuring various weather conditions.
2. The student will demonstrate the ability to work effectively with others in a group

Assessment

1. The student will carry out the procedures for collecting and measuring data on various weather conditions for three days and document the results.
2. The student will complete the *Working in Groups Self-Reflection* worksheet.
3. The student will work effectively in a group to complete a project (observation).

Preparation

- Prior Learning—Instruction on procedures for collecting and measuring various weather conditions
- Handouts/Worksheets—*Working in Groups Self-Reflection* worksheet, and *Team Planning Worksheet*
- Resources/Materials—textbook, tools and instruments for collecting and measuring weather conditions (including wind speed and direction, precipitation, and temperature)
- Time Required—60-120 minutes for instruction, time for teams to collect data (over several days) plus wrap-up discussion

* Adapted from *Career Development Tool Kit Grades 6-8*, Linda Kobylarz & Associates, 2000. Used with permission.

Procedures **Part One**

- Through this activity, students will practice proper procedures for collecting and measuring various weather conditions. They will experience working in a group to accomplish a work assignment. This project will extend over several weeks.
- Begin by reviewing with students the procedures for data collecting and measuring weather conditions (including wind speed and direction, precipitation, and temperature). Demonstrate how to use the tools and equipment needed.
- Group students into teams of three. Explain that each team will be responsible for collecting and measuring data on weather conditions for three days. Each person on the team should have a chance to collect and measure wind speed and direction, precipitation, and temperature data.
- Give students their work schedule showing what days they are to collect data.
- Give students a copy of the *Team Planning Worksheet*. Give students time to organize and plan who will do what. Tell students to be sure to write down their assignments on the worksheet.
- Explain to students that they are to design a form on which to write down (document) the data they collect. They must use the same style form for all three days.
- Give students time to design their data collection form.
- As each group completes its three days of data collection, collect their data form(s).
- At the end of the project, display all of the forms. Ask students to discuss what style form was easiest to read and understand.
- Engage students in a discussion about what did they learn about local weather as a result of this project? Was their data as accurate as that of the weather forecaster (meteorologist) on TV?
- Optional: Create a *Weather Data* notebook of all of the data collection forms.

Part Two—Career Development Connections

- Have students complete the *Working in Groups Self-Reflection*. Discuss their responses and what they learned about working in a group.
- Brainstorm a list of careers in which it is very important to be able to work in groups and be part of a team.
- Point out to students that the ability to work well with others in groups is a quality that is important in our personal lives, in school, and at work.

Crosswalks

SC Career Guidance Standard/Competency

Learning to Work Standard 4. Students will demonstrate a positive work attitude toward work and the ability to work together.

Competency 4.2. Demonstrate cooperative work habits in a group.

Key Employability Skills

Interpersonal-Teamwork—Contributes to group effort, cooperates

Information Management—Acquires, interprets, and communicates information

Team Planning Worksheet

Team members:

1. _____

2. _____

3. _____

Assignments Day 1

Date: _____

Wind speed and direction

Precipitation

Temperature

Assignments Day 2

Date: _____

Wind speed and direction

Precipitation

Temperature

Assignments Day 3

Date: _____

Wind speed and direction

Precipitation

Temperature
